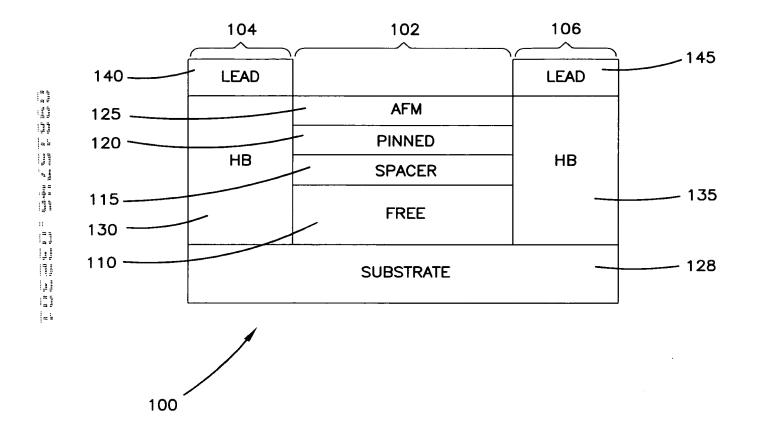
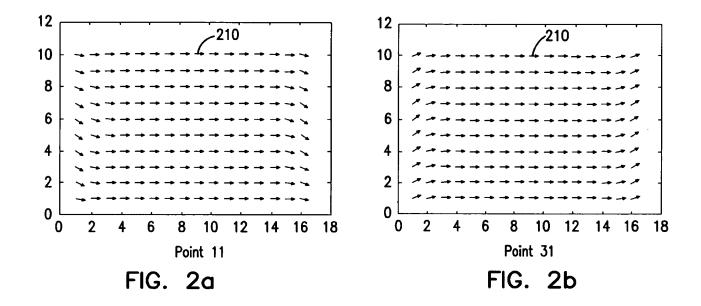
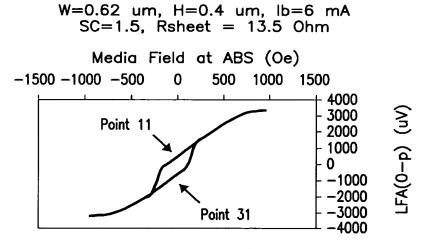
FIG. 1



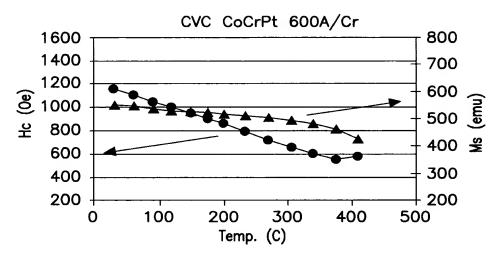




Micromagnetic calculation of the free layer magnetics with different free layer edge states due to the poor PM stabilization.

FIG. 2c

FIG. 3



Temperature dependence of a typical PM hard bias layer

FIG. 4

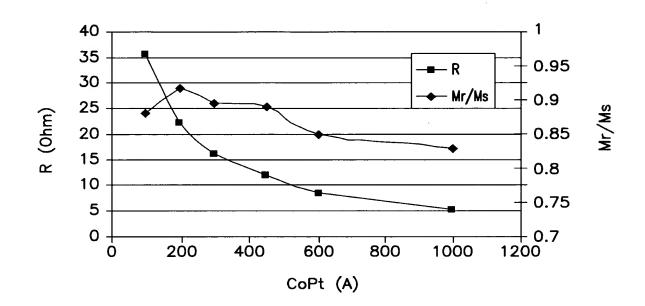


FIG. 5

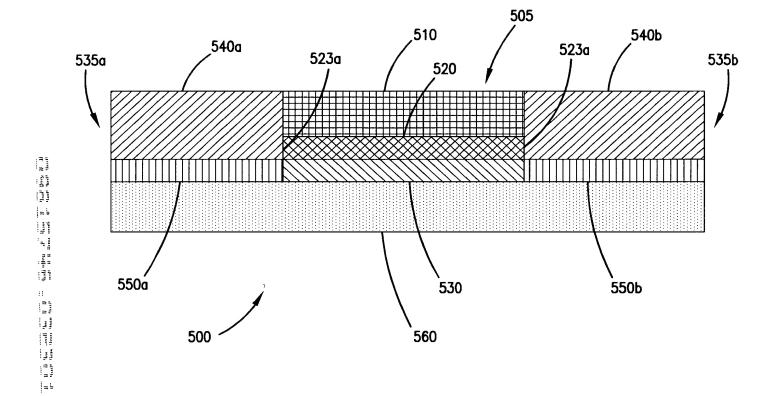
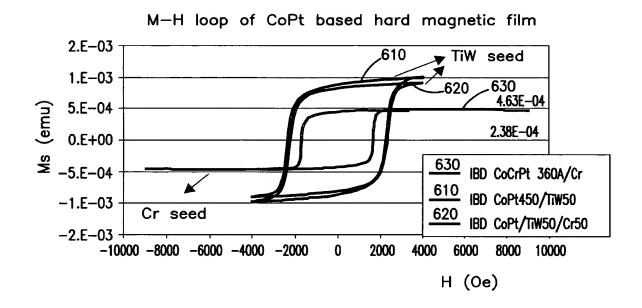


FIG. 6

FIG. 7



Isothermal remanent magnetization of disk media,
IBD CoPt/CoCrPt and CVC CoCrPt

